

FIGURES

Figure 1. Amino acid sequence of human ATF6- α ; SEQ ID NO: 4.

10	20	30	40	50	60
MGEPAVAGT	MESPFSPGLF	HRLDEDWDSA	LFAELGYFTD	TDELQLEAAN	ETYENNFDNL
70	80	90	100	110	120
DFDLDLLPWE	SDIWDINNQI	CTVKDIKAEP	QPLSPASSSY	SVSSPRSVDS	YSSTQHVPEE
130	140	150	160	170	180
LDLSSSSQMS	PLSLYGENSE	SLSSPEPLKE	DKPVTGSRNK	TENGLTPKKK	IQVNSKPSIQ
190	200	210	220	230	240
PKPLLLPAAP	KTQTNSSVPA	KTIIIIQTVPT	LMPLAKQQPI	ISLQAPPTKG	QTVLLSQPTV
250	260	270	280	290	300
VQLQAPGVLP	SAQPVLAVAL	GVTQLPNHVV	NVVPAPSANS	PVNGKLSVTK	PVLQSTMRNV
310	320	330	340	350	360
GSDIAVLRRL	QRMINKRESA	CQSRKKKKEY	MLGLEARLKA	ALSENEQLKK	ENGLTKRQLD
370	380	390	400	410	420
EVVSENQRLK	VPSPKRRVVC	VMIVLAFIIL	NYGPMMSLEQ	DSRRMNPSVG	PANQRRHLIG
430	440	450	460	470	480
FSAKEAQDTS	DGIIQKNSYR	YDHSVSNDKA	LMVLTEEPLL	YIPPPPCQPL	INTTESLRIN
490	500	510	520	530	540
HELRGWVHRH	EVERTKSRRM	TNNQOKTRIL	QGVVEQGSNS	QLMAVQYTET	TSSISRNSGS
550	560	570	580	590	600
ELQVYYASPR	SYQDFFEAIR	RRGDTFYVVS	FRRDHLLLP	TTHNKTTTRPK	MSIVLPAINI
610	620	630	640	650	660
NENVINGQDY	EVMMQIDCQV	MDTRILHIKS	SSVPPYLRDQ	QRNQTNTPFG	SPPAATEATH
670					
VVSTIPESLQ					

Figure 1 (cont.)

Human ATF6- α has a length of 670 amino acids, with a molecular weight of 74,566 Da. Residues 1-150 are involved in transcription activation. Residues 308-328 comprise the basic domain that binds to DNA. Residues 334-369 comprise the leucine zipper. Residues 419-420 comprise the site cleaved by S1P. Residues 378-398 are involved in cleavage by S2P.

Figure 2. Amino acid sequence of human ATF6- β ; SEQ ID NO: 5.

10	20	30	40	50	60
MAELMLLSEI	ADPTRFFTDN	LLSPEDWGLO	NSTLYSGLDE	VAEEQTQLFR	CPEQDVFPDG
70	80	90	100	110	120
SSLDVGMDOVS	PSEPPWELLP	IFPDLQVKSE	PSSPCSSSSL	SSESSLRLSTE	PSSEALGVGE
130	140	150	160	170	180
VLHVKTESLA	PPLCLLGDDP	TSSFETVQIN	VIPTSDDSSD	VQTKIEPVSP	GSSVNSEASL
190	200	210	220	230	240
LSADSSSQAF	IGEEVLEVKT	ESLSPSGCLL	WDVPAPSLGA	VQISMGPSLD	GSSGKALPTR
250	260	270	280	290	300
KPPLQPKPVV	LTTVPMPSRA	VPPSTTVLLQ	SLVQPPPVSP	VVLIQGAIRV	QPEGPAPSLP
310	320	330	340	350	360
RPERKSIVPA	PMPGNSCPPE	VDAKLLKRQQ	RMKNRESAC	QSRKKKEYL	QGLEARLQAV
370	380	390	400	410	420
LADNQQLRRE	NAALRRRLEA	LLAENSELKL	GSGNRKVVCV	MVFLLFIAFN	FGPVSISEPP
430	440	450	460	470	480
SAPISPRMNK	GEPQPRRHLL	GFSEQEPVQG	VEPLQGSSQG	PKEPQPSPTD	QPSFSNLTA
490	500	510	520	530	540
PGGAKELLRL	DLDQLFLSSD	CRHFNRTESL	RLADELSGWV	QRHQGRRKI	PQRAQERQKS
550	560	570	580	590	600
QPRKKSPPVK	AVPIQPPGPP	ERDSVGQLQL	YRHPDRSQPA	FLDAIDRRED	TFYVVSFRRD
610	620	630	640	650	660
HLLLPASHN	KTSRPMKSLV	MPAMAPNETL	SGRGAPGDYE	EMMQIECEVM	DTRVIHIKTS
670	680	690	700		
TVPPSLRKQP	SPTPGNATGG	PLFVSAASQA	HQASHQPLYL	NHP	

Figure 2 (cont.)

Human ATF6- β has a length of 703 amino acids, with a molecular weight of 76,709 Da. Residues 1-86 are involved in transcription activation. Residues 327-347 comprise the basic domain that binds to DNA. Residues 367-388 comprise the leucine zipper. Residues 440-441 comprise the site cleaved by S1P. Residues 410 and 413, independently, are important for cleavage by S2P.

Figure 3. Amino acid sequence of murine ATF6- α (Fragment); SEQ ID NO: 6.

10	20	30	40	50	60
LTHPSCEGEV	SVSGKPACVA	GAMESPFSPV	LPHGPDDEDWE	STLFAELGYF	TDTDDVHFDA
70	80	90	100	110	120
AHEAYENNFD	HLNFDLDLMP	WESDLWSPGS	HFCSDMKAEP	QPLSPASSSC	SISSPRSTDS
130	140	150	160	170	180
CSSTQHVPEE	LDLLSSSQSP	LSLYGDSCNS	PSSVEPLKEE	KPVTGPGNKT	EHGLTPKKKI
190	200	210	220	230	240
QMSSKPSVQP	KPLLLPAAPK	TQTNASVPAK	AIIIQTLPAL	MPLAKQQSII	SIQPAPTRGQ
250	260	270	280	290	300
TVLLSQPTVV	QLQSPAVLSS	AQPVLAVTGG	AAQLPNHVVN	VLPAPVVSSP	VNGKLSVTKP
310	320	330	340	350	360
VLQSATRSMT	SDIAVLRQQ	RMIGNRESAC	QSRKKKKEYM	LGLEARLKAA	LSENEQLKKE
370	380	390	400	410	420
NGSLKRQLDE	VVSENQRLKV	PSPKRRAVCV	MIVLAFIMLN	YGPMSTMLEQE	SRRVKPSVSP
430	440	450	460	470	480
ANQRRHLLEF	SAKEVKDTS	GDNQKDSYSY	DHSVSNKAL	MVPSEEPLY	MPPPPCQPLI
490	500	510	520	530	540
NTTESLRLNH	ELRGWVHRHE	VERTKSRRMT	NSQOKARILQ	GALEQGSNSQ	LMAVQYTETT
550	560	570	580	590	600
SISRNSGSEL	QVYYASPGSY	QGFFDAIRRR	GDTFYVVSFR	RDHLLLPAAT	HNKTTRPKMS
610	620	630	640	650	660
IVLPAININD	NVINGQDYEV	MMQIDCQVMD	TRILHIKSSS	VPPYLRDHQR	NQTSTFFGSP
670					
PTTTETTHVV	STIPESLQ				

Figure 4. Amino acid sequence of murine ATF6- β ; SEQ ID NO: 7.

10	20	30	40	50	60
MAELMLLSEI	ADPTRFFTDN	LLSPEDWDST	LYSGLDEVAE	EQAQLFRCVE	QDVFPDSSSL
70	80	90	100	110	120
DVGMDVSPPE	PPWDPLPIFP	DLQVKSEPS	PCSSSSLSSE	SSHLSTEPPS	QVPGVGEVLH
130	140	150	160	170	180
VKMESLAPPL	CLLGDDPAS	FETVQITVGS	ASDDLSDIQT	KLEPASPS	VHSEASLLSA
190	200	210	220	230	240
DSPSQPFIGE	EVLEVKTESP	SPPGCLLWDV	PASSLGAVQI	SMGSPDSSS	GKAPATRKPP
250	260	270	280	290	300
LQPKPVVLT	VPVPPRAGPT	SAVLLQPLV	QQPAVSPVVL	IQGAIRVQPE	GPAPAAPRPE
310	320	330	340	350	360
RKSIVPAPMP	GNSCPPEVDA	KLLKRQORMI	KNRESACQSR	RKKKEYLQGL	EARLQAVLAD
370	380	390	400	410	420
NQQLRRENAA	LRRRLLEALLA	ENSGLKLGS	NRKVVCIMVF	LLFIAFNFGP	VSISEPPAP
430	440	450	460	470	480
MSPRMSREEP	RPQRHLLGFS	EPGPAHGMEP	LREAAQSPGE	QQPSSAGRPS	FRNLTAFFPG
490	500	510	520	530	540
AKELLLRLD	QLFLSSDCRH	FNRTESLRLA	DELSGWVQRH	QRGRRKIPHR	AQERQKSQLR
550	560	570	580	590	600
KKSPVVKPVP	TQPPGPPERD	PVGQLQLYRH	PGRSQPEFLD	AIDRREDTFY	VVSFRRDHLL
610	620	630	640	650	660
LPAISHNKTS	RPKMSLVMPA	MAPNETVSGR	GPPGDYEEMM	QIECEVMDTR	VIHIKTSTVP
670	680	690			
PSLRKQSPSP	PGNTTGGFLP	GSAASPAHQA	SQPLYLNHP		

Figure 4 (cont.)

Murine ATF6- β has a length of 699 amino acids, with a molecular weight of 76,007 Da. Residues 324-344 represent the basic domain that binds to DNA. Residues 364-385 represent the leucine zipper. Residues 437-438 represent the cleavage site by S1P. Residues 407 and 410, independently, are important for cleavage by S2P.

Figure 5. DNA sequence of human ATF6- α ; SEQ ID NO: 8.

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1 aagatattaa tcacggagtt ccagggaaaa ggaacttgtg aaatggggga gccggctggg
61 gttgccggca ccatggagtc accttttagc ccgggactct ttcacaggct ggatgaagat
121 tgggattctg ctctctttgc tgaacttggc tatttcacag acactgatga gctgcaattg
181 gaagcagcaa atgagacgta tgaaaacaat tttgataatc ttgattttga tttggatttg
241 ttaccttggg agtcagacat ttgggacatc aacaaccaaa tctgtacagt taaagatatt
301 aaggcagaac ccagccact ttctccagcc tctcaagtt attcagctc atctcctcgg
361 tcagtggact cttattcttc aactcagcat gttcctgagg agttggattt gtcttctagt
421 tctcagatgt ctcccccttc cttatatggc gaaaactcta atagtctctc ttcaccggag
481 ccactgaagg aagataagcc tgtcactggc tctaggaaca agactgaaaa tggactgact
541 ccaaagaaaa aaattcaggt gaattcaaaa ccttcaattc agcccaagcc tttattgctt
601 ccagcagcac ccaagactca aacaaaactcc agtgttcag caaaaaacct cattattcag
661 acagtaccaa cgcttatgcc attggcaaa cagcaaccaa ttatcagttt acaacctgca
721 cccactaaag gccagacggc ttgtgtgtct cagcctactg tggtaacaact tcaagcaact
781 ggagttctgc cctctgtctc gccagtcctt gctgttgcgt ggggagtcac acagctcctt
841 aatcacgtgg tgaatgtgg accagccctc tcagcgaata gccagtgaa tggaaaactt
901 tccgtgacta aaactgtcct accaagtacc atgagaaatg tcggttcaga tattgctgtg
961 ctaaggagac agcaacgtat gataaaaaat cgagaatccg cttgtcagtc tcgcaagaag
1021 aagaaagaat atatgctagg gttagaggcg agattaaagg ctgcccctctc agaaaacgag
1081 caactgaaga aagaaaaatg aacactgaag cggcagctgg atgaagttgt gtcagagAAC
1141 cagaggctta aagtccttag tccaaagcga agagttgtct gtgtgatagt agtattggca
1201 tttataatac tgaactatgg acctatgagc atgttggAAC aggatccag gagaatgAAC
1261 cctagtgtgg gacctgcaaa tcaaaggagg caccttctag gattttctgc taaagaggca
1321 caggacacat cagatgggat tatccagaaa aacagctaca gatatgatca ttctgtttca
1381 aatgacaaag ccctgatggc gctaactgaa gaaecattgc tttacattcc occacotcct
1441 tgtcagcccc taattaatac aacagagtct ctacaggttaa atcatgaact tcgaggatgg
1501 gttcatagac atgaagtaga aaggaccaag tctagaagaa tgacaaataa tcaacagaaa
1561 acccgtattc ttcaggggtg tgtggaacag ggctcaaatt ctacagctgat ggotgttcaa
1621 tacacagaaa ccactagtag tatcagcagg aactcaggga gtgagctaca agtgatttat
1681 gcttcaccca gaagttatca agactttttt gaagccatcc gcagaagggg agacacattt
1741 tatgttgtgt catttcgaag ggatcacctg ctgttaocag ctaccaccca taacaagaoc
1801 acaagaccAA aaatgtcaat tgtgttacca gcaataaaca taaatgagaa tgtgatcaat
1861 gggcaggact acgaagtgat gatgcagatt gactgtcagg tgatggacac caggatcctc
1921 catatcaaaa gttcgtcggc tctccttac ctccgagatc agcagaggaa tcaaaaccaac
1981 accttctttg gctccccctc cgcagccaca gaggcaaccc acgttgtcag caccatcctt
2041 gagtcattac aatagcaccc gcagctatgt ggaaaactga gcgtgggacc ccagactga
2101 agagcagggt agcaaaatgc tgcttttctt tgggtggcagg cagagaactg ttcgtactag
2161 aattcaagga gaaaagaaga agaaataaaa gaagctgctc catttttcat catctaccca
2221 tctattttgga aagcactgga attcagatgc aagagaacaa tgtttcttca gtggcaaatg
2281 tagccctgca tctccagtg ttacctgggt tagatttttt tttctgtacc tttctaaacc
2341 tctcttccct ctgtgatggc tttgtgttta aacagtcac ttctttttaa taatatcac
2401 ctctcctttt tgccatttca cttattgatt cataaagtga attttattta aagctaaaaa
2461 aaaaaaaaaa aaaa
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Figure 6. DNA sequence of human ATF6- β ; SEQ ID NO: 9.

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1  aaccgtctcc tgggttggggg gtgggggggga aagatggcgg agctgatgct gctcagcgag
61 attgctgacc cgacgcgttt cttcaccgac aacctgctta gcccggagga ctgggggtctg
121 cagaacagca ccttggtatc tggcctagat gaagtggccg aggagcagac gcagctcttc
181 cgttgcccgg agcaggatgt cccgtttgac ggcagctccc tggacgtggg gatggatgtc
241 agccctctg agcccccatt ggaactcctg ccgatcttcc cagatcttca ggtgaagtct
301 gagccatctt cccctgctc ttcctcctcc ctgctctcag agtcatcgcg tctctccaca
361 gagccatcca gcgaggctct tggggtaggg gaggtgctcc atgtgaagac agagtecttg
421 gcacccccac tgtgtctcct gggagatgac ccaacatcct catttgaaac cgtccagatc
481 aatgttatcc ccacctctga tgattcctca gatgtccaga ccaagataga acctgtctct
541 ccatgttctt ccgtcaactc tgaggcctcc ctgctctcag ccgactcctc cagccagget
601 tttataggag aggaggtcct ggaagtgaag acagagtccc tgtccccttc aggatgectc
661 ctgtgggatg tcccagcccc ctacttgga gctgtccaga tcagcatggg cccatocett
721 gatggctcct caggcaaagc cctgcccacc cggaagccgc cactgcagcc caaacrtgta
781 gtgctaacca ctgtccaat gccatccaga gctgtgctc ccagcaocac agtccctctg
841 cagtccctcg tccagccacc cccagtgtcc ccagtgtgct tcattccagg tgctattcga
901 gtccagcctg aaggggccggc tccctctcta ccacggcctg agaggaagag catcgttccc
961 gctcctatgc ctggaaactc ctgcccgcct gaagtggatg caaagctgct gaagcggcag
1021 cagcgaatga tcaagaaccg ggagtcagcc tgccagctcc ggagaaagaa gaaagagtat
1081 ctgcagggac tggaggctcg gctgcaagca gtactggctg acaaccagca gctccgcca
1141 gagaatgctg ccctccggcg gcggctggag gccctgctgg ctgaaaacag cgagctcaag
1201 ttagggctcg gaaacaggaa ggtggtctgc atcatggtct tccctctctt cattgccttc
1261 aactttggac ctgtcagcat cagtgagcct ccttcagctc ccattctctc tcggatgaac
1321 aagggggagc ctcaaccccc gagacatttg ctggggttct cagagcaaga gccagttcag
1381 ggagttgaac ctctccaggg gtcctcccag ggccctaagg agccccagcc cagccccaca
1441 gaccagccca gtttcagcaa cctgacagcc ttccctgggg gcgccaagga gctactacta
1501 agagacctag accagctctt cctctcctct gattgccggc acttcaaccg cactgagtec
1561 ctgaggcttg ctgacgagtt gagtggctgg gtccagcgcc accagagagg ccggaggaag
1621 atccctcaga gggcccagga gagacagaag tctcagccac ggaagaagtc acctccagtt
1681 aaggcagtc ccattccaacc ccctggaccc ccagaaaggg attctgtggg ccagctgcaa
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1861 aacaagacct cccggcccaa gatgtccctg gtgatgcctg ccatggcccc caatgagacc
1921 ctgtcaggcc gtggggcccc gggggactat gaggagatga tgcagatcga gtgtgaggtc
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2281 tttgagggtg ggggtgtcac ctctcttctc atcccttttc agaatatagg gctcctctca
2341 ttcctgtgaa cccccagtc tggcttcttt gtttgagggg attgtgtgag gttcagttgt
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2461 aggtgggaat ttagtcccca ggtgggacaa ggggaagttt ttcatttttg agctagttac
2521 tgggagtaag ggagggtgg gtggggggga gttcaggttt atgtgtgtgc atttctttt
2581 tattattatt aaataaacia cttggaggga gttgaaaaaa aa
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Figure 7. DNA sequence of murine ATF6- α ; SEQ ID NO: 10.

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1  ccggagggag aggtgtctgt ttcgggggaag ccggttctgt ttgccggcgc catggagtcg
61  ccttttagtc cggttcttcc tcatggacca gatgaagact gggagtcgac gttgtttgct
121 gaacttggtt atttcacaga cactgatgat gtgcactttg atgcagcaca tgaggcttat
181 gaaaataatt ttgatcatct taattttgat ttggatttga tgccctggga gtcagacctc
241 tggagccccg gcagccactt ctgctcagac atgaaggcag agccccagcc tctttctcog
301 ccttcagttc gttgtcccat ctccctcctt cgggtccacag actcgtgttc ttcaactcag
361 cacgttcctg aggagttgga tttgttgtct agttctcagt ccccccttcc cttatatggc
421 gacagctgta atagccccct ctctgtagag ccactgaagg aagagaagcc tgtcactggg
481 cctggaaaca aaacagaaca tggactgact ccaaagaaaa aaattcagat gaggttaaaa
541 ccttcagttc agcccaagcc tttattactt ccagcagcgc ccaagactca aaccaatgcc
601 ggtgtcccat caaaagccat catcattcag acactaccag cccttatgcc actggcaaa
661 cagcagtcga ttatcagcat acagcctgog cccaccaaaag gccagactgt tttgctctct
721 cagccgactg tggttcaact tcagagccct gcggttctgt cgtctgtctc gccggttctt
781 gcagtcactg ggggagccgc acagctacct aacctgtgg tgaattgttg ttggcagccc
841 cctgtgggtg agcagcccg tgaattgaaa actttccgtg actaaacctg tctacaaaag
901 tgccaccaga agtatgggtt cggatatcgc tgtgctgagg agacagcagc ggatgataaa
961 gaaccgagag tctgcttgte agtcgcgcaa gaagaagaaa gaggatatgc taggactgga
1021 ggccaggcct caaggctgcc ctctcataga atgagcagct gtagaaggag taatggctccc
1081 tgaagcgaca gctggacgag gtggtgtcag agaaccagag gctcaaagtc xcaatgccaa
1141 agcgaagagc tgtctgtgtg atgatagtat tagcatttat aatgctgaac tatgggccc
1201 tgagcatgct ggagcaagaa tcccgaagag tgaaacctag tgtgagccct gccaatcaga
1261 ggaggcatct cttggaattt tcagcaaaaag aagttaaaga cacatcagat ggtgacaacc
1321 agaaagacag ttacagctat gatcactctg tgtccaatga caaagcttta atggtgctaa
1381 gtgaagagcc attgctttat atgctctcac ctccatgtca acccttgatt aacacacag
1441 agtctctcag gttgaaccat gaacttcgag gctgggttca tagacatgaa gtggaaagga
1501 ccaaatctag aagaatgaca aatagccaac agaaaagccc cattctccag ggtgctctgg
1561 aacagggttc taattctcag ctgatggctg tccagtacac agaaaccact agcatcagta
1621 ggaattctgg gagtgaactg caagtgtatt acgcctcccc tggaaagttac caaggcttct
1681 ttgacgccat ccgcaggagg ggagatacgt tttacgttgt ctcatctcga agggatctac
1741 tgctattacc agctaccacc cacaacaaga ccacaagacc aaaaatgtca attgtattac
1801 cagcaataaa cataaatgat aatgtgatca atgggcagga ctatgaagta atgatgcaga
1861 ttgatgttca ggtgatggac accaggatcc tccacatcaa aagctctcog gttccccctt
1921 atctccggga tcatcagcgg aaccaaacca gcacctcttt tggttccoct ccaacaacca
1981 cagagacgac ccatgtggtc agcaccatcc ctgagtcggt gcagtagtgc ccgagctgag
2041 ctggacagca gagactgaag agctggtgaa gatgctgctc tctgctctct cggcaagcag
2101 agacttgctt tgtacgcaac tccaggggaa gaggaagaga gaacaggaag tgcgctgctt
2161 gtcaccgtcc acccagtggg gtggaacatg cttagcgagca attctctggg tgcagtgagc
2221 ccctgtgggc agtgtcgctt ggtgttggtt ctgctgtgtc atcttttagt cttttctcaa
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2401 ttccaccaaa ttggctttct ctctcctttg gttcaaattc attctgaatg ttatacttga
2461 gaaaacacat ttcaaaaaac cgagcagcca aaaacatccc acaagagtc aaaacagttt
2521 agagtttggg taaagggatt atctccagtt ggttaagagt tatttttact tgtgatttgt
2581 ggttcagccc tggacaaata actgttgttg ggtcacaga gtgagccaca cactggagac
2641 aagggaaggg aaggccagtg gtggaatgta aggggaagtg actccatttt catatgtatt
2701 taaacacaga gttcctgtgg cctcggtaag ctcagagcta tagccacctt cagtgttggg
2761 actcggctaa tcagcagaga tcttcaaaga tctcagggca catgcttgcc tctcatgtg
2821 gacctcagc ccagagcata ctctgtgaa accagactca gcaaagggac ttggaggtca
2881 ctaggcttaa gcaagactag agagtttccc ttaaggacca acagtgacac gagcaagcat
2941 ggcttcccag agaagctgca gcacagtatg gtgaagttct cagtttttcc agtggaaaga
3001 tgataaagga attaagctct ctttgttgtt gctatggctg tgaacatggc tttaatccta
3061 gcaccatttg gaaggaaagg caggctttgt ttgatatcag cctggectac atttcaaatt
3121 ccaggacagg acagctaaag ctatataaag aaoccacctc aaaaaataga tgaatgaata
3181 aatgagtaaa taaacaaata caaacaacaa gcaaagttat gttcacatat attttattgt
3241 attttgctg cttcttcac catagcaagg agccacattt ctattgcact gtacattgta
3301 cgttacaagt tcacagaaat ggatgccagg actcatgtca gtcattgtgt gcctcccttc
3361 ccaggatttc agcaggttct catagactct tcccagcctg gcttgcccat tgtcaggtgg

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Figure 7. (cont.)

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3421 tcccattcca gtaagcacia tggcggctaa gtcctcttct ctctacaagg agtgacacac
3481 agtcagggtca tcttttgcct gtggcccat tatgcctggt actgttcacc aacaactgtt
3541 ccctggacag cactgctgcc atctaagcta aggtgagatg ttttcggggc agggccattc
3601 ttgctgaatt cagtgccgca gtccatcctg attggctctc ggggtgattt cagacaagac
3661 ctggtttgtcc cgggggctgg tcctctaata ggtgccaagg agaagatacc aaatacatgg
3721 agtaccttta ggagtagcca tttgtggggg aggttgggct acctgtggc catgttcttc
3781 ctgcctgtga agcagctcaa aacgaggatg tgactgtggg ctgtggacag aggcagcaca
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4141 ttatgagatg aggaatgggg cctcctcag gggagagttt cagaaatgag ggaaaggcaa
4201 ttatagatag aaagaagtat cctgccattt aaattgctga aagagctaga atccctgggc
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4321 ttgtcctggg agcaaagtaa gcagccattc aggtctcatt ttttattttg gtatgcttgc
4381 ccttgggtgt ttatagcccg gaactgtagg agctatgtat gtacataata tatatatttt
4441 ttaattt
```

Figure 8. DNA sequence of murine ATF6- β ; SEQ ID NO: 11.

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```